



FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)	ATTY. DOCKET NO. I-2-0053.3US	SERIAL NO. 09/878,586
	APPLICANT Donald L. Schilling	
	FILING DATE June 11, 2001	GROUP 2666

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TD	DQ	3,641,433	02/1972	Mifflin et al.	—	—	
↑	DR	4,048,563	09/1977	Osborne, Eugene F.	↑	↑	
	DS	4,270,207	05/1981	Gutleber, Frank S.			
	DT	4,864,588	09/1989	Simpson et al.			
	DU	5,029,180	07/1991	Cowart, Brooks E.			
	DV	5,036,523	07/1991	Briskman, Robert D.			
↓	DW	5,189,683	02/1993	Cowart, Brooks E.	↓	↓	
TD	DX	5,329,547	07/1994	Ling, Fuyun	—	—	

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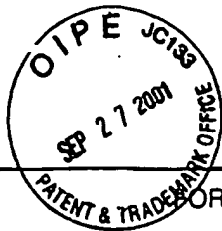
## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


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Sheet 1 of 6FORM PTO-1449  
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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
I-2-53.3USSERIAL NO.  
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Donald L. SchillingINFORMATION DISCLOSURE  
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June 11, 2001GROUP 266 D  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<u>F.D.</u>	AA*	3	8	3	1	0	1	3	8/74	Alsup et al.	—	—	
↑	AB*	3	9	0	0	7	2	1	8/75	Speiser et al.	↑	↑	
	AC*	4	1	1	2	3	7	2	9/78	Holmes et al.			
	AD*	4	2	2	2	1	1	5	9/80	Cooper et al.			
	AE*	4	2	3	8	8	5	0	12/80	Vance			
	AF*	4	2	4	7	9	4	2	1/81	Hauer			
	AG*	4	3	9	2	2	3	2	7/83	Andren et al.			
	AH*	4	4	1	8	3	9	3	11/83	Zscheile, Jr.			
	AI*	4	4	1	8	4	2	5	11/83	Fennel, Jr. et al.			
	AJ*	4	4	2	5	6	4	2	1/84	Moses et al.			
	AK*	4	4	5	5	6	5	1	6/84	Baran			
	AL*	4	4	7	9	2	2	6	10/84	Prabhu et al.			
	AM*	4	5	1	2	0	1	3	4/85	Nash et al.			
	AN*	4	5	2	3	3	1	1	6/85	Lee et al.			
	AO*	4	5	3	3	1	3	0	11/85	Kato			
	AP*	4	5	6	3	7	7	4	1/86	Gloge			
	AQ*	4	6	0	6	0	3	9	8/86	Nicolas et al.			
	AR*	4	6	1	2	6	3	7	9/86	Davis et al.			
	AS*	4	6	2	1	3	6	5	11/86	Chiu			
↓	AT*	4	6	4	7	8	6	3	3/87	Skudera, Jr. et al.	↓	↓	
<u>F.D.</u>	AU*	4	6	4	9	5	4	9	3/87	Halpern et al.	—	—	

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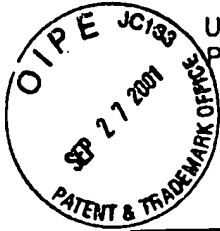
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Donald L. SchillingFILING DATE  
June 11, 2001GROUP  
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## U.S. PATENT DOCUMENTS

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<i>T.D.</i>	AV*	4	6	5	3	0	6	9	3/87	Roeder	—	—	
↑	AW*	4	6	6	0	1	6	4	4/87	Leibowitz	↑	↑	
	AX*	4	6	7	2	6	0	5	6/87	Hustig et al.			
	AY*	4	6	7	2	6	2	9	6/87	Beier			
	AZ*	4	6	7	2	6	5	8	6/87	Kavehrad et al.			
	BA*	4	6	7	5	8	3	9	6/87	Kerr			
	BB*	4	6	8	0	7	8	5	7/87	Akiyama et al.			
	BC*	4	6	9	1	3	2	6	9/87	Tsuchiya			
	BD*	4	6	9	7	2	6	0	9/87	Grauel et al.			
	BE*	4	7	0	3	4	7	4	10/87	Foschini et al.			
	BF*	4	7	0	7	8	3	9	11/87	Andren et al.			
	BG*	4	7	1	8	0	8	0	1/88	Serrano et al.			
	BH*	4	7	3	0	3	4	0	3/88	Frazier, Jr.			
	BI*	4	7	4	2	5	1	2	5/88	Akashi et al.			
	BJ*	4	7	5	9	0	3	4	7/88	Nagazumi			
	BK*	4	7	8	9	9	8	3	12/88	Acampora et al.			
	BL*	4	7	9	9	2	5	3	1/89	Stern et al.			
	BM*	4	8	0	5	2	0	8	2/89	Schwartz			
↓	BN*	4	8	0	7	2	2	2	2/89	Amitay	↓	↓	
<i>T.D.</i>	BO*	4	8	3	7	8	0	2	6/89	Hiashiyama et al.	—	—	

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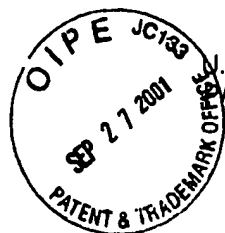
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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>T.D.</i>	BP*	4	8	5	0	0	3	6	7/89	Smith	—	—	
↑	BQ*	4	8	6	0	3	0	7	8/89	Nakayama	↑	↑	
	BR**	4	8	6	2	1	7	8	8/89	Sturza et al.			
	BS*	4	8	6	6	7	3	2	9/89	Carey et al.			
	BT*	4	8	9	4	8	4	2	1/90	Broekhoven et al.			
	BU*	4	9	0	1	3	0	7	2/90	Gilhausen et al.			
	BV*	4	9	1	4	6	5	1	4/90	Lusignan			
	BW*	4	9	2	2	5	0	6	5/90	McCallister et al.			
	BX*	4	9	3	0	1	4	0	5/90	Cripps et al.			
	BY*	4	9	3	2	0	3	7	6/90	Simpson et al.			
	BZ*	4	9	6	9	1	5	9	11/90	Belcher et al.			
	CA*	4	9	7	7	5	7	7	12/90	Arthur et al.			
	CB*	4	9	7	7	5	7	8	12/90	Ishigaki et al.			
	CC*	5	0	0	5	1	6	9	4/91	Bronder et al.			
	CD*	5	0	1	6	2	5	5	5/91	Dixon et al.			
	CE*	5	0	1	6	2	5	6	5/91	Stewart			
	CF*	5	0	2	2	0	4	7	6/91	Dixon et al.			
	CG*	5	0	2	3	8	8	7	6/91	Takeuchi et al.			
<i>J</i>	CH*	5	0	2	9	1	8	1	7/91	Endo et al.	↓	↓	
<i>T.D.</i>	CI*	5	0	4	0	2	3	8	8/91	Comroe et al.	—	—	

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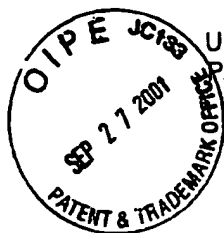
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## U.S. PATENT DOCUMENTS

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<i>Tid</i>	CJ*	5	0	4	8	0	5	2	9/91	Hamatsu et al.	✓	—	
↑	CK*	5	0	5	6	1	0	9	10/91	Gilhousen et al.	↑	↑	
	CL*	5	0	6	7	1	4	7	11/91	Lee			
	CM*	5	0	9	3	8	4	0	3/92	Schilling			
	CN*	5	1	7	9	5	7	1	1/93	Schilling			
	CO*	5	1	8	5	7	6	2	2/93	Schilling			
	CP*	5	1	9	3	1	0	1	3/93	McDonald et al.			
	CQ*	5	2	1	2	8	0	5	5/93	Comroe et al.			
	CR*	5	2	1	8	6	1	8	6/93	Sagey			
	CS*	5	2	2	8	0	5	3	7/93	Miller et al.			
	CT*	5	3	3	9	3	3	0	8/94	Mallinckrodt			
	CU*	5	3	5	1	2	6	9	9/94	Schilling	✓	✓	
<i>Tm</i>	CV*	5	7	0	3	8	7	4	12/97	Schilling	—	—	

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													YES	NO
<i>Tm</i>	CW*	2	1	7	3	3	7	7A	10/86	UK	—	—		
<i>Tid</i>	CX*	0	2	6	5	1	7	8	4/88	Europe	—	—		
<i>Tid</i>	CY*	8	3	0	2	5	3	3	7/83	PCT	—	—		

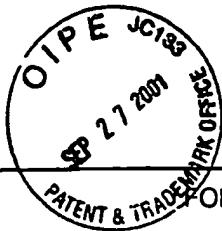
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

T.P	CZ*	S.O. Rice, Time-Series Analysis, Chap. 25, John Wiley & Schilling, Principles of Communication Systems, 2nd Edition, McGraw-Hill, New York, 1986
↑	DA*	M.B. Pursley, "Performance Evaluation for Phase-Coded Spread-Spectrum Multiple-Access Communication - Part I: System Analysis", IEEE Transactions on Communications, Com-25, No. 8, August, 1977
	DB*	J.M. Holtzman, "A Simple, Accurate Method To Calculate Spread-Spectrum Multiple-Access Error Probabilities", IEEE Transactions on Communications, Vol. 40, No. 3, March 1992
	DC*	Fluhr, Z.C. and Porter, P.T., "Advanced Mobile Phone Service: Control Architecture", The Bell System Technical Journal (Jan. 1979), Vol. 58, No. 1, pp. 43-69.
	DD*	DeGaudenzi, R. and Viola, R., "A Novel Code Division Multiple Access System for High Capacity Mobile Communications Satellites", ESA Journal (1989), Vol. 13, pp. 303-322.
	DE*	Stiffler, J.J., Theory of Synchronous Communications (Prentice-Hall, Inc., New Jersey), table of contents listing.
	DF*	Scholtz, Robert A., "The Origins of Spread-Spectrum Communications", IEEE Transactions on Communications (May 1982), Vol. Com. 30, No. 5; pp. 822-855.
	DG*	Nettleton, Raymond W., Spectral Efficiency in Cellular Land-Mobile Communications: A Spread-Spectrum Approach (1978) (unpublished Ph.D. Dissertation, Purdue University.
✓	DH*	Cooper, George R. and Nettleton, Ray, W., "Cellular Mobile Technology: The Great Multiplier," IEEE Spectrum, June 1983, pp. 30-37.
T.P	DI*	Blasbalg, H., "A Comparison of Pseudo-Noise and Conventional Modulation for Multiple-Access Satellite Communications," IBM Journal of Research Development, Vol. 9, No. 4, Jul. 1965, pp. 241-255.

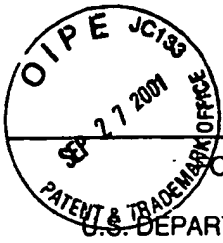
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<i>T.D</i>	DJ*	Dixon, Robert C., Spread Spectrum Systems (John Wiley & Sons, Inc.: New York, 3d ed. 1994), pp. 412-413.
<i>↑</i>	DK*	The International Dictionary of Physics and Electronics (D. Van Nostrand Co.: Princeton, NJ, 2d ed. 1961), pp. 612, 952.
	DL*	Robinson, Vester, Solid-State Circuit Analysis (Reston Publishing Co.: Reston, VA, 1975), pp. 309-314.
	DM*	Alavi, Hossein, Power Control and Interference Management in a Spread-Spectrum Cellular Mobile Radio System (1984) (Unpublished Ph.D. Dissertation, Michigan State University).
	DN*	M.S. Pursley, "Performance Evaluation for Phase-Coded Spread-Spectrum Multiple-Access Communication - Part I: System Analysis", IEEE Transactions on Communications, Com-25, No. 8, August, 1997.
<i>↓</i>	DO*	J.M. Holtzman, "A Simple, Accurate Method To Calculate Spread-Spectrum Multiple-Access Error Probabilities", IEEE Transactions on Communications, Vol. 40, No. 3, March 1992.
<i>T.D</i>	DP*	Frequenz, no. 9/10, 20 September 1986, Berlin De, pages 255-259, Eizenhöfer 'Anwendung der Spread-Spectrum-Technik in dem hybriden Mobilfunksystem MATS-D'

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